Mark Van Selst

San Jose State University

Graduate Seminar: COGNITION

Chapter 1: Introduction & Syllabus

Cognitive Psychology *(Goldstein, 5th Ed.)*

FALL 2024

Important Dates and Policies

Wed, Aug. 21	**First Day of Instruction**	Wed, Aug. 21
Fri, Aug. 30	Waitlist ends	Fri, Aug. 30
Sat, Aug. 31	Permission number is required to add a class	Sat, Aug. 31
Tue, Sept. 17	**Last Day to Drop Classes without a "W" Grade and Last Day to Add Classes via MySJSU (ends at 11:59 pm)** **Last Day to submit Audit | Credit/No-Credit Option Request** **Last Day to submit Instructor Drops**	**Tue, Sept. 17**
Wed, Sept. 18	Enrollment Census Date (No Enrollment allowed)	Wed, Sept. 18
Thu, Sept. 19	Late Add Post Census Request required Late Drop/ Semester Withdrawal Petition Requirement begins: Undergraduate | Graduate	Thu, Sept. 19
Fri, Oct. 11	Graduation Application Deadline to Qualify for Priority Registration for Undergrads	Fri, Oct. 11
Mon, Nov. 18	Semester Withdrawal Deadline: Undergraduate, Graduate Late Enrollment Post Census ends	Mon, Nov. 18
Mon, Dec. 9	Last Day of Instruction	Mon, Dec. 9

ADD PRIORITY:

Graduating seniors (will also be move to top of waitlist).

1. Students for whom the class is required for their degree or a prerequisite for classes required for their degree.
2. Instructor generated priorities once these mandated priorities are met.
3. Open University students cannot be added to your course if any matriculated students have been turned away, even if physical seats are available.

Psychology 235, Cognition
Section 1, Fall 2024

The California State University — WORKING FOR CALIFORNIA

Instructor: Mark Van Selst
Telephone: #408 office 9245674
Email: Mark.VanSelst@SJSU.edu
Web: CANVAS (course is IN PERSON)

Class Days/Time (section 1):   Tues & Thur: 9:00 AM – 10:15 AM
Classroom: **DMH 308**

(expect for ZOOM days)

Office Hours/Location: Tue & Thur: 8:30 – 9:00 DMH 314
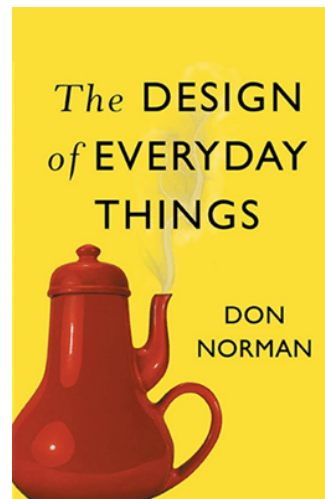
(except ZOOM days)

Prerequisites: MA Graduate Student (REx program)
Class ID Number: PSYC 235-01 = 48106

What is **COGNITION** ?

… where have you seen the term outside of class?

- Scope

- Core Content

- Cognition

  - Cognitive Neuroscience

  - Cognitive Science

<Breakout Group>

The **DESIGN** of **EVERYDAY THINGS**

DON NORMAN

When you have trouble with things—whether it's figuring out whether to push or pull a door or the arbitrary vagaries of the modern computer—it's not your fault. Don't blame yourself: blame the designer.

—Don Norman

History of the Cognitive Approach

The history of what we now call cognitive psychology is largely the history of whether or not we can infer the existence what we cannot directly measure with additional flavoring by the 'current' view of knowledge.

Memory is like a …

Course Scope: Theories and current research in cognitive psychology with emphasis on components of cognitive processing from pattern recognition to problem solving. Substantial emphasis on cognitive development and mechanisms of cognitive change.

Memory: The *mental processes* of acquiring and retaining information for later retrieval, and the *mental storage system* in which these processes operate.

Cognition: The collection of mental processes and activities used in perceiving, learning, remembering, thinking, and understanding, and the act of using those processes.

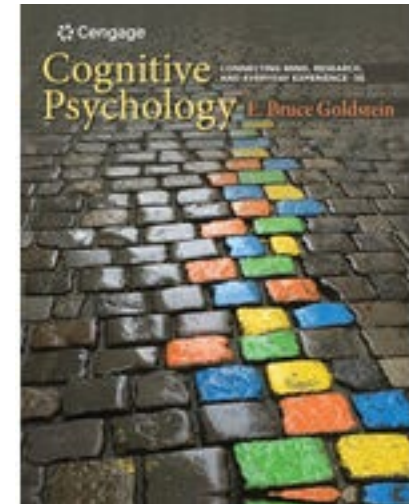# Catalog Description and Required Text

Course Description

Theories and current research in cognitive psychology with emphasis on components of cognitive processing from pattern recognition to problem solving. Substantial emphasis on cognitive development and mechanisms of cognitive change.

Required Textbook

Cognitive Psychology: Connecting Mind, Research, and Everyday Experience
by E. Bruce Goldstein
5th Edition | Copyright 2019

5th Edition has colored cobblestones

Chapter 1:   Introduction to Cognitive Psychology (Aug 27)

Chapter 2:   Cognitive Neuroscience (Sept 3)

Chapter 3:   Perception (Sept 10)

Chapter 4:   Attention (Sept 17 – ZOOM)

Chapter 5:   Short-Term & Working Memory (Sept 24)

Chapter 6:   Long-Term Memory: Structure (Oct 1)

Chapter 7:   LTM: Encoding, Retrieval, Consolidation (Oct 8)

Chapter 8:   Everyday Memory & Errors (Oct 15)

Chapter 9:   Conceptual Knowledge (Oct 21)

Chapter 10:   Visual Imagery (Oct 28)

Chapter 11:   Language (Nov 5)

Chapter 12:   Problem Solving & Creativity (Nov 12 - ZOOM)

Chapter 13:   Judgement & Decision making (Nov 19)

Finding Course-Relevant Materials

- You NEED the textbook (*electronic or priority shipping if you don't own it yet*)….

- CANVAS (!)
  - SJSU online course management
  - Believe the posted dates… obey them

- You WILL need access to SJSU library resources

christa.bailey@sjsu.edu

Course Goals

Goal 1. Knowledge Base of Psychology:

- Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in cognitive psychology.

Goal 2. Research Methods in Psychology:

- Students will understand basic methodological approaches used in cognitive psychology, including research design, analysis, and interpretation.

Goal 3. Critical Thinking Skills in Psychology:

- Students will understand and be able to use critical and creative thinking, skeptical inquiry, and a scientific approach to address issues related to behavior and mental processes.

Goal 4. Application of Psychology:

- Students will understand and be able to apply psychological principles to individual, interpersonal, group, and societal issues.

Goal 5. Values in Psychology:

- Students will value empirical evidence, tolerate ambiguity, act ethically, and recognize their role and responsibility as a member of society.

<u>Evaluation</u>

2 presentations 2@3% ∑ = 6%

13 assignments: see schedule, 2-4% each, ∑ = 25%
- Last assignment is due AFTER the final exam…

5 mostly non-cumulative exams ∑ = 50%
- The "final" is just the last midterm (last chapter)

10 questions of the day (after lecture) ∑ = 5%
- These will be time/day sensitive @ the end of the lecture

Computerized Cognition Experiment ∑ = 14%

The course will be graded out of 100
- (60% for a D-; 62.5% D; 67.5%...)

Tests are be open book/open note but must be your own work

From the university catalog:

Good standing at graduate level entails maintaining an average SJSU cumulative GPA of 3.0 or above. You must complete all courses in your graduate program with grades of A, B, C or CR. Grades of C-, D, F, U, or NC in any course are unsatisfactory.

ME

UBC, Waterloo, NASA-Ames, SJSU

Dual-Task, Alcohol, Decision Making, Visual Cognition, Consciousness

(and sailboat racing)

YOU

name, history? long-term goals? future plans?

+ (build your cohort!)

<Breakout Group>

Social Expectations: you are adults, I am human

- Etiquette
- Disability / Modifications
- Exam Rescheduling (exam early)

Academic Expectations:

- Lateness is bad (be sure to keep current work on time)
- Plagiarism is worse
- Poor grammar, incomprehensible or AI-generated text, text documents that do not open, and unintelligible writing will all hurt your grade
- **UNIVERSITY POLICIES (!)**
- **https://www.sjsu.edu/curriculum/courses/syllabus-info.php**

Calendar

TUESDAY	THURSDAY
	Aug 22 Orientation
Aug 27 (C1)	**Aug 29** Student presentations I (C1) Asst 1 due Friday
Sept 3 (C2)	**Sept 5** Student presentations I (C2) Asst 2 due Friday
Sept 10 (C3)	**Sept 12** **NO CLASS** Midterm 1 (C1, C2, C3) Friday Asst 3 due Friday PROJECT TOPIC due Friday
Sept 17 (C4) – ZOOM	**Sept 19** **NO CLASS** Asst 4 due Friday

Calendar

TUESDAY	THURSDAY
Sept 24 (C5)	**Sept 26** Student presentations I (C3,C4,C5) Asst 5 due Friday
Oct 1(C6)	**Oct 3** Student presentations I (C6) Asst 6 due Friday MIDTERM 2 (C4, C4, C6) Friday
Oct 8 (C7)	**Oct 10** Student presentations I (C7) Asst 7 due Friday PROJECT Computer Program Ready
Oct 15 (C8)	**Oct 17** Student presentations II (C8) Asst 8 due Friday
Oct 22 (C9)	**Oct 24** Student presentations II (C9) Asst 9 due Friday MIDTERM 3 (C6, C7,C8) Friday

Calendar

TUESDAY	THURSDAY
Oct 29 (C10)	**Oct 31** Student presentations II (C10) Asst 10 due Friday
Nov 5 (C11)	**Nov 7** Student presentations II (C11) Asst 11 due Friday
Nov 12 (C12) - ZOOM	**Nov 14** NO CLASS Asst 12 due Friday MIDTERM 2 (C4, C4, C6) Friday
Nov 19 (C13)	**Nov 21** Student presentations II (C12, C13) Asst 13 due Friday
Nov 26 PROJECT ANALYSIS	**Nov 28** **NO CLASS (Thanksgiving)**

Calendar

TUESDAY	THURSDAY
Dec 3 PROJECT Presentations	**DEC 5** PROJECT Presentations
MON DEC 16 7:15AM Culminating Activity (Project Presentations)	

www.calstate.edu
www.sjsu.edu/psych